

# INTERNATIONAL SEARCH REPORT

National Application No

/GB2004/002865

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/118 A61K39/09 A61K39/02 A61K39/295 G01N33/569  
A61P31/04 A61P31/12 C07K16/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, EMBASE, MEDLINE, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 5 583 014 A (BROWN KAREN K ET AL) 10 December 1996 (1996-12-10) column 1, line 50 - line 51 column 5, line 15 - line 24 example 1 claim 1	1,2,8, 23,24,27
X	---	18,25, 52,54
X	EP 0 415 794 A (COOPERS ANIMAL HEALTH) 6 March 1991 (1991-03-06) page 2, line 1 -page 3, line 19 example 10 claims 1,2	1,3,6,8, 23,24,27
X	---	18,25
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☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex

### \* Special categories of cited documents

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*Z\* document member of the same patent family

Date of the actual completion of the international search

16 November 2004

Date of mailing of the international search report

10/12/2004

Name and mailing address of the ISA

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# INTERNATIONAL SEARCH REPORT

tional Application No

/GB2004/002865

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	EP 1 023 903 A (AKZO NOBEL NV) 2 August 2000 (2000-08-02) column 4, line 14 - line 16 example 2 claims 1,3-5	1,2,23, 24,27
X	---	18,25, 52,54
X	WIDDERS P R ET AL: "Immunisation of mares to control endometritis caused by Streptococcus zooepidemicus" RESEARCH IN VETERINARY SCIENCE, vol. 58, no. 1, 1995, pages 75-81, XP002301526 ISSN: 0034-5288 abstract page 75, right-hand column, paragraph 2 -page 77, left-hand column, paragraph 2 figure 1	1,2,8, 23,24, 27,52,54
X	---	18,25
X	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; March 2001 (2001-03) OBUKHOV I L ET AL: "Development of vaccine against chlamydiosis in cats, dogs and fur-bearing animals" Database accession no. PREV200100271011 XP002301528 abstract	1,18, 23-25,27
X	& SEL'SKOKHOZYAISTVENNAYA BIOLOGIYA, no. 2, March 2001 (2001-03), pages 68-79, ISSN: 0131-6397	8
X	---	
X	US 2003/021801 A1 (KUBO AYA ET AL) 30 January 2003 (2003-01-30)  column 10, paragraph 3 -column 19, paragraph 4 claims 1-22	1,5,7, 23,27, 29,31, 52,54
X	---	8,18,24, 30
X	"Nobivac Forcat" VETERINARIA NEWS, 'Online! 2002, pages 1-6, XP002304346 Retrieved from the Internet: <URL:http://www.veterinaria.ch/news/welcom e.html> 'retrieved on 2004-11-06! page 1	1,5,6, 23,24,27
X	---	8,18,25
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## INTERNATIONAL SEARCH REPORT

ational Application No

/GB2004/002865

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	DATABASE PHIN 'Online! 10 May 2002 (2002-05-10) "Nobivac Forcat in Switzerland" retrieved from STN Database accession no. 2002:9264 XP002304348 abstract	1,5,6, 23,24,27
X	---	8,18,25
X	HECHARD CELINE ET AL: "Protection evaluation against Chlamydomydia abortus challenge by DNA vaccination with a dnaK-encoding plasmid in pregnant and non-pregnant mice" VETERINARY RESEARCH (PARIS), vol. 33, no. 3, May 2002 (2002-05), pages 313-326, XP002304347 ISSN: 0928-4249 abstract page 316, column 1, paragraph 3 -page 317, column 1, paragraph 2	1,4,23, 24,27
X	---	8,18
X	WO 87/00531 A (TECHNOLOGY LICENCE CO LTD) 29 January 1987 (1987-01-29) page 15, line 13 -page 16, line 5 example 1 claims 9,24	27,29,31
X	---	52,54
X	WO 86/02355 A (TECHNOLOGY LICENCE CO LTD) 24 April 1986 (1986-04-24) page 8, last paragraph examples 1-3 claims 1-8	29,31
X	---	30,52,54
X	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1994 WOLOSZYNS STANISLAW ET AL: "Infectious tracheobronchitis in dogs" Database accession no. PREV199497512573 XP002304443 abstract	45-51
X	-& MEDYCYNÄ WETERYNARYJNA, vol. 50, no. 9, 1994, pages 428-431, XP001183735 ISSN: 0025-8628 page 428, left-hand column, paragraph 1 page 429, left-hand column, paragraph 1 ---	45-51
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## INTERNATIONAL SEARCH REPORT

International Application No

GB2004/002865

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
P,X	CHALKER VICTORIA J ET AL: "The association of Streptococcus equi subsp. zooepidemicus with canine infectious respiratory disease." VETERINARY MICROBIOLOGY, vol. 95, no. 1-2, 29 August 2003 (2003-08-29), pages 149-156, XP002301527 ISSN: 0378-1135 the whole document	1,2,8, 16-18, 20,21, 23-25, 27, 29-33, 35,36, 45-48, 52,54
P,Y	----	9-15,19, 22,26, 28,34,37
P,Y	WO 2004/011651 A (CHALKER VICTORIA JANE ; BROWNLIE JOHN (GB); ERLES KERSTIN (GB); ROYAL) 5 February 2004 (2004-02-05) page 4; claims 47-63,73-87 ----	9-15,19, 22,26, 28,34,37
A	ERLES K ET AL: "Detection of a group 2 coronavirus in dogs with canine infectious respiratory disease" VIROLOGY, RAVEN PRESS, NEW YORK, NY, US, vol. 310, no. 2, 5 June 2003 (2003-06-05), pages 216-223, XP002257085 ISSN: 0042-6822 the whole document ----	1-54
A	DURGUT RAMAZAN ET AL: "Kennel cough syndrome of dogs observed in Ankara province." INDIAN VETERINARY JOURNAL, vol. 80, no. 8, August 2003 (2003-08), pages 743-745, XP009038499 ISSN: 0019-6479 the whole document -----	1-54

# INTERNATIONAL SEARCH REPORT

national application No.  
PCT/GB2004/002865

## Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 16-19, 29, 32-34, 43-48, 51  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically.
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Continuation of Box II.1

Although the claims 16-19, 29, 32-34, 43-48 and 51 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Continuation of Box II.1

Claims Nos.: 16-19,29,32-34,43-48,51

Claims 16-19, 32-34:

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Claims 29, 43-48, 51:

Rule 39.1(iv) PCT

- Method for treatment of the human or animal body by surgery

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

'GB2004/002865

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5583014	A	10-12-1996	CA 2044721 A1	04-01-1992
EP 0415794	A	06-03-1991	AU 637405 B2	27-05-1993
			AU 6335590 A	08-04-1991
			CA 2064911 A1	02-03-1991
			DD 297331 A5	09-01-1992
			EP 0415794 A1	06-03-1991
			EP 0766967 A1	09-04-1997
			WO 9103256 A1	21-03-1991
			HR 930517 A1	31-08-1997
			HU 61205 A2	28-12-1992
			IE 903161 A1	13-03-1991
			JP 5500056 T	14-01-1993
			LV 10394 A ,B	20-02-1995
			NZ 235119 A	23-12-1991
			PL 286711 A1	15-07-1991
			PL 168316 B1	29-02-1996
			PT 95164 A ,B	22-05-1991
			US 5178860 A	12-01-1993
			ZA 9006977 A	27-05-1992
EP 1023903	A	02-08-2000	EP 1023903 A1	02-08-2000
			AT 257713 T	15-01-2004
			AU 761515 B2	05-06-2003
			AU 1355700 A	27-07-2000
			CA 2296965 A1	26-07-2000
			DE 60007668 D1	19-02-2004
			DK 1023903 T3	10-05-2004
			ES 2214217 T3	16-09-2004
			JP 2000309542 A	07-11-2000
			PT 1023903 T	30-04-2004
			US 6682745 B1	27-01-2004
			US 2004120970 A1	24-06-2004
US 2003021801	A1	30-01-2003	US 2001048927 A1	06-12-2001
			AU 3476701 A	14-08-2001
			WO 0156605 A1	09-08-2001
WO 8700531	A	29-01-1987	EP 0229146 A1	22-07-1987
			WO 8700531 A1	29-01-1987
			JP 63500593 T	03-03-1988
WO 8602355	A	24-04-1986	EP 0198001 A1	22-10-1986
			WO 8602355 A1	24-04-1986
WO 2004011651	A	05-02-2004	WO 2004011651 A1	05-02-2004